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JAN 17 2007

IN THE CLAIMS

1. (canceled)
2. (canceled)
3. (canceled)
4. (canceled)
5. (canceled)
6. (canceled)
7. (canceled)
8. (canceled)
9. (previously presented): An optical glass consisting of, in mass %,

SiO <sub>2</sub>	55.35-70%
B <sub>2</sub> O <sub>3</sub>	3-less than 15%
PbO	0-2%
Al <sub>2</sub> O <sub>3</sub>	0-2.3%
Li <sub>2</sub> O	0-3%
CaO	0-2%
SrO	0-2%
ZrO <sub>2</sub>	0-2%

wherein the total amount of the CaO, SrO and ZrO<sub>2</sub> ingredients is 2% or less and Na<sub>2</sub>O + K<sub>2</sub>O + BaO + ZnO in the total amount of 10-45% TiO<sub>2</sub> 0-0.5% and fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of F contained in the fluoride or fluorides being 8.4-11%, said optical glass including a fluorine ingredient and/or a titanium oxide ingredient and/or an arsenic oxide ingredient.

10. (canceled)
11. (previously presented): An optical glass as defined in claim 9 wherein an amount of change in refractive index ( $\Delta n$ : difference in refractive index between a state

before radiation and a state after radiation) caused by radiation of laser beam at wavelength of 351nm having average output power of 0.43W, pulse repetition rate of 5kHz and pulse width of 400ns for one hour is 5 ppm or below.

12. (canceled)

13. (currently amended): An optical glass as defined in claim 11 comprising, in mass %, 0.001-[[05]] 0.5% of  $\text{TiO}_2$  as the titanium oxide ingredient and/or 0.001-1% of  $\text{As}_2\text{O}_3$  as the arsenic oxide ingredient.

14. (previously presented) An optical glass comprising, in mass %,

$\text{SiO}_2$	55.35-70%
$\text{B}_2\text{O}_3$	3-20%
$\text{Al}_2\text{O}_3$	0-2.3%
$\text{Li}_2\text{O}$	0-3%
$\text{CaO}$	0-2%

$\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{BaO} + \text{ZnO}$  in the total amount of 19.5-45%

where

$\text{BaO}$	1.19-42%
$\text{TiO}_2$	0-0.5% and

fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of F contained in the fluoride or fluorides being 8.4-11% wherein an amount of change in refractive index ( $\Delta n$ : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of laser beam at wavelength of 351nm having average output power of 0.43W, pulse repetition rate of 5kHz and pulse width of 400ns for one hour is 5 ppm or below.

15. (previously presented): An optical glass as defined in claim 14 further comprising, in mass %,

$\text{CaO}$	0-2%
$\text{SrO}$	0-2%
$\text{ZrO}_2$	0-2%

the total amount of one or more of the CaO, SrO and ZrO<sub>2</sub> ingredients being 2% or below.

16. (canceled)

17. (previously presented): An optical glass as defined in claim 14 comprising a titanium oxide ingredient and/or an arsenic oxide ingredient.

18. (previously presented): An optical glass as defined in claim 17 comprising, in mass %, 0.001-0.5% of TiO<sub>2</sub> as the titanium oxide ingredient and/or 0.001-1% of As<sub>2</sub>O<sub>3</sub> as the arsenic oxide ingredient.

19. (previously presented): An optical glass comprising, in mass %,

SiO <sub>2</sub>	55.35-70%
B <sub>2</sub> O <sub>3</sub>	3-20%
PbO	0-2%
Al <sub>2</sub> O <sub>3</sub>	0-2.3%
Li <sub>2</sub> O	0-3%
CaO	0-2%

Na<sub>2</sub>O + K<sub>2</sub>O + BaO + ZnO in the total amount of 10-45%

where

BaO	1.19-42%
TiO <sub>2</sub>	0-0.5% and

fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of F contained in the fluoride or fluorides being 8.4-11% wherein an amount of change in refractive index ( $\Delta n$ : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of laser beam at wavelength of 351nm having average output power of 0.43W, pulse repetition rate of 5kHz and pulse width of 400ns for one hour is 5 ppm or below.

20. (previously presented): An optical glass as defined in claim 19 further comprising, in mass %,

CaO	0-2%
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SrO 0-2%

ZrO<sub>2</sub> 0-2%

the total amount of one or more of the CaO, SrO and ZrO<sub>2</sub> ingredients being 2% or below.

21. (cancelled)

22. (previously presented): An optical glass as defined in claim 19 comprising a titanium oxide ingredient and/or an arsenic oxide ingredient.

23. (previously presented): An optical glass as defined in claim 22 comprising, in mass %, 0.001-0.5% of TiO<sub>2</sub> as the titanium oxide ingredient and/or 0.001-1% of As<sub>2</sub>O<sub>3</sub> as the arsenic oxide ingredient.

24. (previously presented): An optical glass comprising, in mass %,

SiO<sub>2</sub> 55.35-70%

B<sub>2</sub>O<sub>3</sub> 3-less than 15%

Al<sub>2</sub>O<sub>3</sub> 0-2.3%

Li<sub>2</sub>O 0-3%

CaO 0-2%

Na<sub>2</sub>O + K<sub>2</sub>O + BaO + ZnO in the total amount of 10-45%

where

Na<sub>2</sub>O 0-13%

K<sub>2</sub>O 0-12%

BaO 1.19-42%

and

ZnO 0-7%

PbO 0-2%

TiO<sub>2</sub> 0-0.5%

As<sub>2</sub>O<sub>3</sub> 0-1%

Sb<sub>2</sub>O<sub>3</sub> 0-1% and

fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of F contained in the fluoride or fluorides being 8.4-11% wherein an amount of change in refractive index ( $\Delta n$ : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of laser beam at wavelength of 351nm having

average output power of 0.43W, pulse repetition rate of 5kHz and pulse width of 400ns for one hour is 5 ppm or below.

25. (previously presented): An optical glass as defined in claim 24 further comprising, in mass %,

CaO	0-2%
SrO	0-2%
ZrO <sub>2</sub>	0-2%

the total amount of one or more of the CaO, SrO and ZrO<sub>2</sub> ingredients being 2% or below.

26. (canceled)

27. (previously presented): Optical glass as defined in claim 24 comprising a titanium oxide ingredient and/or an arsenic oxide ingredient.

28. (previously presented): An optical glass as defined in claim 27 comprising, in mass %, 0.001-0.5% of TiO<sub>2</sub> as the titanium oxide ingredient and/or 0.001-1% of As<sub>2</sub>O<sub>3</sub> as the arsenic oxide ingredient.

29. (previously presented): An optical glass comprising, in mass %,

SiO <sub>2</sub>	55.35-70%
B <sub>2</sub> O <sub>3</sub>	3-20%
Al <sub>2</sub> O <sub>3</sub>	0-2.3%
Li <sub>2</sub> O	0-3%
CaO	0-3%

Na<sub>2</sub>O + K<sub>2</sub>O + BaO + ZnO in the total amount of 19.5-45%  
where

Na <sub>2</sub> O	0-13%
K <sub>2</sub> O	0-12%
BaO	1.19-42%
and	
ZnO	0-7%
PbO	0-2%

TiO <sub>2</sub>	0-0.5%
As <sub>2</sub> O <sub>3</sub>	0-1%
Sb <sub>2</sub> O <sub>3</sub>	0-1% and

fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of F contained in the fluoride or fluorides being 8.4-11% wherein an amount of change in refractive index ( $\Delta n$ : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of laser beam at wavelength of 351nm having average output power of 0.43W, pulse repetition rate of 5kHz and pulse width of 400ns for one hour is 5 ppm or below.

30. (previously presented): An optical glass as defined in claim 29 further comprising, in mass %,

CaO	0-2%
SrO	0-2%
ZrO <sub>2</sub>	0-2%

the total amount of one or more of the CaO, SrO and ZrO<sub>2</sub> ingredients being 2% or below.

31. (canceled)

32. (previously presented): An optical glass as defined in claim 29 comprising a titanium oxide ingredient and/or an arsenic oxide ingredient.

33. (previously presented): An optical glass as defined in claim 32 comprising, in mass %, 0.001-0.5% of TiO<sub>2</sub> as the titanium oxide ingredient and/or 0.001-1% of As<sub>2</sub>O<sub>3</sub> as the arsenic oxide ingredient.

34. (previously presented): An optical glass comprising, in mass %,

SiO <sub>2</sub>	55.35-70%
B <sub>2</sub> O <sub>3</sub>	3-20%
Al <sub>2</sub> O <sub>3</sub>	0-2.3%
Li <sub>2</sub> O	0-3%
CaO	0-2%

Na<sub>2</sub>O + K<sub>2</sub>O + BaO + ZnO in the total amount of 10-45%

where

Na <sub>2</sub> O	0-13%
K <sub>2</sub> O	0-12%
BaO	1.19-42%
and	
ZnO	0-7%
PbO	0-2%
TiO <sub>2</sub>	0-0.5%
As <sub>2</sub> O <sub>3</sub>	0-1%
Sb <sub>2</sub> O <sub>3</sub>	0-1% and

fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of F contained in the fluoride or fluorides being 8.4-11% wherein an amount of change in refractive index ( $\Delta n$ : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of laser beam at wavelength of 351nm having average output power of 0.43W, pulse repetition rate of 5kHz and pulse width of 400ns for one hour is 5 ppm or below.

35. (previously presented): An optical glass as defined in claim 34 further comprising, in mass %,

CaO	0-2%
SrO	0-2%
ZrO <sub>2</sub>	0-2%

the total amount of one or more of the CaO, SrO and ZrO<sub>2</sub> ingredients being 2% or below.

36. (canceled)

37. (previously presented): An optical glass as defined in claim 34 comprising a titanium oxide ingredient and/or an arsenic oxide ingredient.

38. (previously presented): An optical glass as defined in claim 37 comprising, in mass %, 0.001-0.5% of TiO<sub>2</sub> as the titanium oxide ingredient and/or 0.001-1% of As<sub>2</sub>O<sub>3</sub> as the arsenic oxide ingredient.

39. (previously presented): A method of providing an optical glass for lenses of an optical system of an i-line stepper, said method comprising providing in said i-line stepper a lens made from an optical glass having a composition comprising, in mass %,

SiO <sub>2</sub>	55.35-70%
B <sub>2</sub> O <sub>3</sub>	3-less than 15%
PbO	0-2%
Al <sub>2</sub> O <sub>3</sub>	0-2.3%
Li <sub>2</sub> O	0-3%
CaO	0-2%

Na<sub>2</sub>O + K<sub>2</sub>O + BaO + ZnO in the total amount of 10-45%

and

fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of F contained in the fluoride or fluorides being 0-11%.